

Missouri Department of Natural Resources

Total Maximum Daily Load Information Sheet

Gabriel Creek

Waterbody Segment at a Glance:

County: Morgan
Nearby Cities: Stover
Length of impairment: 1 mile
Pollutant: Biochemical Oxygen Demand (BOD)
Source: Stover Wastewater Treatment Plants (WWTPs)



State map showing location of watershed

Proposed changes to impairment:

Length increase from 0.8 to 1 mile

Drop non-filterable residue (NFR) as a pollutant

Source change from Stover NW Lagoon to Stover WWTPs

TMDL Priority Ranking: Low

Description of the Problem

Beneficial uses of Gabriel Creek

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life and Human Health associated with Fish Consumption

Use that is impaired

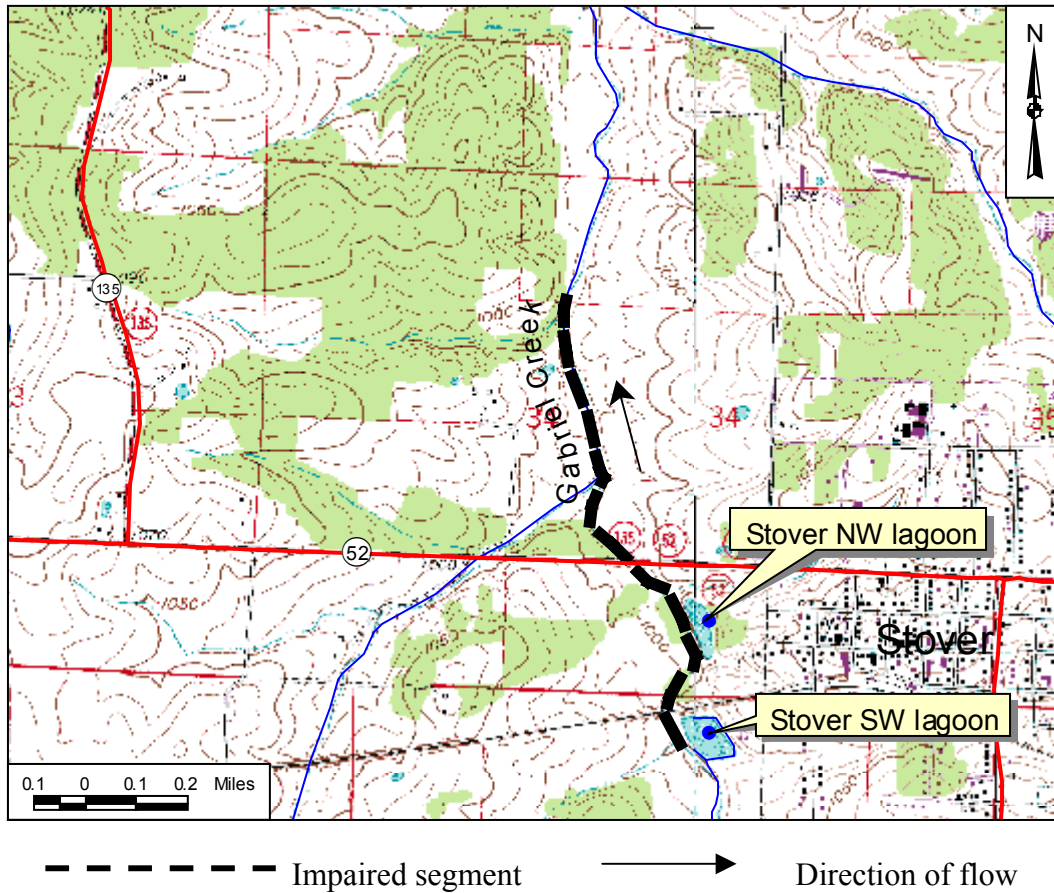
- Protection of Warm Water Aquatic Life

Standards that apply

- The Missouri Water Quality Standard, found in 10 CSR 20-7.031 Table A, for dissolved oxygen (related to BOD) in streams is 5.0 mg/L (milligrams per liter or parts per million).

This stream shows reduced diversity of aquatic invertebrates (water insects and crayfish) and low levels of dissolved oxygen downstream from the two Stover wastewater treatment plant (WWTP) lagoons. Wastewater that is high in BOD (Biochemical Oxygen Demand) lowers the dissolved oxygen in a stream. Many aquatic organisms require high levels of oxygen to survive. Like all wastewater discharges in Missouri, the Stover WWTPs have to meet the limits contained in discharge permits issued by Missouri Department of Natural Resources. The department plans additional studies of the aquatic invertebrates in Gabriel Creek. If these studies show that the stream is still not meeting water quality standards, the discharge permit will be amended. Meeting the new requirements will result in improved water quality.

Gabriel Creek and the Stover Lagoons in Morgan County, Missouri



For more information call or write:

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